

SIDE BY SIDE COMPARISON OF PROPOSED BUILDING STANDARDS
OF THE

DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

REGARDING AMENDMENTS TO THE 2010 CALIFORNIA BUILDING CODE AND 2010 CALIFORNIA RESIDENTIAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 AND PART 2.5, RESPECTIVELY

Item No. / Section	Existing Text	Proposed Text
<p>1. HCD proposes to amend Section 420.4.1 Carbon monoxide alarms.</p>	<p>420.4.1 Carbon monoxide alarms. For new construction, an approved carbon monoxide alarm shall be installed in dwelling units and in sleeping units within which fuel-burning appliances are installed; and in dwelling units that have attached garages.</p>	<p>420.4.1 Carbon monoxide alarms.-Group R occupancies located in a building containing a fuel-burning appliance or a building which has an attached garage shall be provided with single station carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 and be installed and maintained in accordance with NFPA 720 and the manufacturer's instructions. An open parking garage, as defined in the California Building Code, or an enclosed parking garage ventilated in accordance with the California Mechanical Code shall not be deemed to be an attached garage.</p> <p>Exception: Sleeping units or dwelling units which do not themselves contain a fuel-burning appliance or have an attached garage, but which are located in a building with a fuel-burning appliance or an attached garage, need not be provided with single station carbon monoxide alarms provided that:</p> <ol style="list-style-type: none"> 1. The sleeping unit or dwelling unit is located more than one story above or below any story which contains a fuel-burning appliance or an attached garage; 2. The sleeping unit or dwelling unit is not connected by duct work or ventilation shafts to any room containing a fuel-burning appliance or to an attached garage; and 3. The building is provided with a common area carbon monoxide alarm system.
<p>2. HCD proposes to add new language in Section 420.4.1.1</p>	<p>The existing section 420.1.1 has been renumbered as Section 420.1.1.2. Therefore the Section heading and language now proposed in Section 420.4.1.1 is new.</p>	<p>420.4.1.1 Carbon monoxide detection systems. Carbon monoxide detection systems, that include carbon monoxide detectors and audible notification appliances, installed and maintained in accordance with this section for carbon monoxide alarms and NFPA 720 shall be permitted. The carbon monoxide detectors shall be listed as complying with UL 2075.</p>

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<p>3. HCD proposes to renumber the existing Section 420.4.1.1 to Section 420.4.1.2 and has added two new exceptions.</p>	<p>420.4.1.1 Power supply. For new construction, required carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery back-up. Alarm wiring shall be directly connected to the permanent building wiring without a disconnecting switch other than as required for overcurrent protection.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. In dwelling units where there is no commercial power supply, the carbon monoxide alarm may be solely battery operated. 2. In existing dwelling units, a carbon monoxide alarm is permitted to be solely battery operated where repairs or alterations do not result in the removal of wall and ceiling finishes or there is no access by means of attic, basement or crawl space. 3. Other power sources recognized for use by NFPA 720. 	<p>420.4.1.2 Power supply. For new construction, required carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery back-up. Alarm wiring shall be directly connected to the permanent building wiring without a disconnecting switch other than as required for overcurrent protection.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. In dwelling units where there is no commercial power supply, the carbon monoxide alarm may be solely battery operated. 2. In existing dwelling units, a carbon monoxide alarm is permitted to be solely battery operated where repairs or alterations do not result in the removal of wall and ceiling finishes or there is no access by means of attic, basement or crawl space. 3. Other power sources recognized for use by NFPA 720. 4. In existing dwelling units, a carbon monoxide alarm is permitted to be solely battery operated or plug-in with battery back-up where repairs or alterations are limited to the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck. 5. In existing dwelling units, a carbon monoxide alarm is permitted to be solely battery operated or plug-in with battery back-up when work is limited to the installation, alteration or repair of plumbing or mechanical systems.

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Item No. / Section	Existing Text	Proposed Text
4. HCD proposes to renumber the existing Section 420.4.1.2 creating new Section 420.4.1.3 and proposes three new exceptions.	<p>420.4.1.2 Interconnection. Where more than one carbon monoxide alarm is required to be installed within the dwelling unit or within a sleeping unit, the alarm shall be interconnected in a manner that activation of one alarm shall activate all of the alarms in the individual unit.</p> <p>Exception:</p> <p>1. Interconnection is not required in existing dwelling units or within sleeping units where repairs do not result in the removal of wall and ceiling finishes, there is no access by means of attic, basement or crawl space, and no previous method for interconnection existed.</p>	<p>420.4.1.3 Interconnection. Where more than one carbon monoxide alarm is required to be installed within the dwelling unit or within a sleeping unit, the alarm shall be interconnected in a manner that activation of one alarm shall activate all of the alarms in the individual unit.</p> <p>Exceptions:</p> <p>1. Interconnection is not required in existing dwelling units or within sleeping units where repairs do not result in the removal of wall and ceiling finishes, there is no access by means of attic, basement or crawl space, and no previous method for interconnection existed.</p> <p>2. In existing dwelling units, carbon monoxide alarms are not required to be interconnected where no construction is taking place.</p> <p>3. In existing dwelling units, carbon monoxide alarms are not required to be interconnected where repairs or alterations are limited to the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or decks.</p> <p>4. In existing dwelling units, carbon monoxide alarm are not required to be interconnected when work is limited to the installation, alteration or repair of plumbing or mechanical systems.</p>
5. HCD proposes to amend Section 420.4.2	<p>420.4.2 Where required in existing dwellings or sleeping units. Where a permit is required for alterations, repairs or additions exceeding one thousand dollars (\$1,000), existing dwellings or sleeping units that have attached garages or fuel-burning appliances shall be provided with a carbon monoxide alarm in accordance with Section 420.4.1. Carbon monoxide alarms shall only be required in the specific dwelling unit or sleeping unit for which the permit was obtained.</p>	<p>420.4.2 When required in existing dwellings or sleeping units. Prior to July 1, 2011, when a permit is required for alterations, repairs or additions with a total cost or calculated valuation exceeding one thousand dollars (\$1,000), existing dwellings or sleeping units that have attached garages or fuel-burning appliances shall be provided with a carbon monoxide alarm in accordance with Section 420.4. Carbon monoxide alarms shall only be required in the specific dwelling unit or sleeping unit for which the permit was obtained.</p>

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6. HCD proposes to add Section 420.4.2.1	No existing section or text	420.4.2.1 Carbon monoxide alarms on or after July 1, 2011. All existing detached single-family dwelling units intended for human occupancy, shall have a carbon monoxide alarm, approved and listed by the State Fire Marshal installed on or before July 1, 2011. See Health and Safety Code Sections 17926. 17926.1 and 17926.2. Carbon monoxide alarms are permitted to be solely battery operated or plug-in with battery back-up in existing buildings where no construction is taking place. When a permit is required for alterations, repairs or additions, existing dwellings or sleeping units that have attached garages or fuel-burning appliances shall be provided with a carbon monoxide alarm in accordance with Section 420.4.
7. HCD proposes to add Section 420.4.2.2	No existing section or text	420.4.2.2 Carbon monoxide alarms on or after January 1, 2013. All other existing dwelling units intended for human occupancy as defined in Health and Safety Code Section 13262 (b) shall have a carbon monoxide alarm approved by the State Fire Marshal installed on or before January 1, 2013. See Health and Safety Code Sections 17926, 17926.1 and 17926.2. Carbon monoxide alarms are permitted to be solely battery operated or plug-in with battery back-up in existing buildings where no construction is taking place. When a permit is required for alterations, repairs or additions, existing dwelling units that have attached garages or fuel-burning appliances shall be provided with a carbon monoxide alarm in accordance with Section 420.4.

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8. HCD proposes to amend Section 420.4.3	<p>420.4.3 Alarm requirements. Single-and multiple-station carbon monoxide alarms shall be listed as complying with the requirements of UL 2034. Carbon monoxide detectors shall be listed as complying with the requirements of UL 2075. Carbon monoxide alarms and carbon monoxide detectors shall be installed in accordance with this code, the current edition of NFPA 720 "Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment" and the manufacturer's installation instructions. Other carbon monoxide alarm and detection devices as recognized in NFPA 720 are also acceptable. Carbon monoxide alarms required by Sections 420.4.1 and 420.4.2 shall be installed in the following locations:</p> <ol style="list-style-type: none"> 1. Outside of each separate dwelling unit sleeping area in the immediate vicinity of the bedroom(s). 2. On every level of a dwelling unit including basements. 3. For R-1 only. <ol style="list-style-type: none"> a. On the ceiling, of sleeping units with permanently installed fuel-burning appliances. 	<p>420.4.3 Alarm requirements. No person shall install, market, distribute, offer for sale, or sell any carbon monoxide device in the State of California unless the device and instructions have been approved and listed by the State Fire Marshal. Carbon monoxide alarms required by Sections 420.4.1 and 420.4.2 shall be installed and maintained in the following locations:</p> <ol style="list-style-type: none"> 1. Outside of each separate dwelling unit sleeping area in the immediate vicinity of the bedroom(s). 2. On every level of a dwelling unit including basements. 3. For R-1 only. <ol style="list-style-type: none"> a. On the ceiling, of sleeping units with permanently installed fuel-burning appliances, or in other locations in compliance with the manufacturer's installation instructions.
9. HCD proposes to amend Section 420.4.4	<p>420.4.4 Visible alarms. In buildings meeting the definition of "COVERED MULTIFAMILY DWELLINGS" in accordance with Chapter 11A, and with fuel-burning appliances and/or attached garages as described in Section 420.4.1, all required carbon monoxide alarms shall be provided with the capability to support visible alarm notification appliances in accordance with NFPA 720 and Chapter 11B.</p>	<p>420.4.4 Visible alarms. In buildings containing "COVERED MULTIFAMILY DWELLINGS" as defined in Chapter 11A, with fuel-burning appliances and/or attached garages as described in Section 420.4.1, all required carbon monoxide alarms shall be provided with the capability to support visible alarm notification in accordance with NFPA 720 and Chapter 11B.</p>
10. HCD proposes to amend Section R301.1	<p>R315.1 Carbon monoxide alarms. For new construction, an approved carbon monoxide alarm shall be installed in dwelling units and in sleeping units within which fuel-burning appliances are installed and in dwelling units that have attached garages.</p>	<p>R315.1 Carbon monoxide alarms. For new construction, an approved carbon monoxide alarm shall be installed in dwelling units and in sleeping units within which fuel-burning appliances are installed and in dwelling units that have attached garages. Carbon monoxide alarms shall be listed as complying with UL 2034 and be installed and maintained in accordance with NFPA 720 and the manufacturer's instructions.</p>

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11. HCD proposes to add new language in Section R315.1.1	<p>The existing section R315.1.1 has been renumbered as Section R305.1.2. Therefore the title and language now in Section R315.1.1 is new</p>	<p>R315.1.1 Carbon monoxide detection systems. Carbon monoxide detection systems, that include carbon monoxide detectors and audible notification appliances, installed and maintained in accordance with this section for carbon monoxide alarms and NFPA 720 shall be permitted. The carbon monoxide detectors shall be listed as complying with UL 2075.</p>
12. HCD proposes to renumber the existing Section R315.1.1 to Section R315.1.2 and has proposed two new exceptions.	<p>R315.1.1 Power supply. For new construction required carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery back-up. Alarm wiring shall be directly connected to the permanent building wiring without a disconnecting switch other than as required for overcurrent protection.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. In dwelling units where there is no commercial power supply the carbon monoxide alarm may be solely battery operated. 2. In existing dwelling units a carbon monoxide alarm is permitted to be solely battery operated where repairs or alterations do not result in the removal of wall and ceiling finishes or there is no access by means of attic, basement or crawl space. 	<p>R315.1.2 Power supply. For new construction required carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery back-up. Alarm wiring shall be directly connected to the permanent building wiring without a disconnecting switch other than as required for overcurrent protection.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. In dwelling units where there is no commercial power supply the carbon monoxide alarm may be solely battery operated. 2. In existing dwelling units a carbon monoxide alarm is permitted to be solely battery operated where repairs or alterations do not result in the removal of wall and ceiling finishes or there is no access by means of attic, basement or crawl space. 3. In existing dwelling units, a carbon monoxide alarm is permitted to be solely battery operated or plug-in with battery back-up where repairs or alterations are limited to the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck. 4. In existing dwelling units, a carbon monoxide alarm is permitted to be solely battery operated or plug-in with battery back-up when work is limited to the installation, alteration or repair of plumbing or mechanical systems.

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<p>13. HCD proposes to renumber the existing Section R315.1.2 creating new Section R315.1.3 and has proposed three new exceptions.</p>	<p>R315.1.2 Interconnection. Where more than one carbon monoxide alarm is required to be installed within the dwelling unit or within a sleeping unit the alarm shall be interconnected in a manner that activation of one alarm shall activate all of the alarms in the individual unit.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Interconnection is not required in existing dwelling units where repairs do not result in the removal of wall and ceiling finishes, there is no access by means of attic, basement or crawl space, and no previous method for interconnection existed. 	<p>R315.1.3 Interconnection. Where more than one carbon monoxide alarm is required to be installed within the dwelling unit or within a sleeping unit the alarm shall be interconnected in a manner that activation of one alarm shall activate all of the alarms in the individual unit.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Interconnection is not required in existing dwelling units where repairs do not result in the removal of wall and ceiling finishes, there is no access by means of attic, basement or crawl space, and no previous method for interconnection existed. 2. In existing dwelling units, carbon monoxide alarms are not required to be interconnected where no construction is taking place. 3. In existing dwelling units, carbon monoxide alarms are not required to be interconnected where repairs or alterations are limited to the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck. 4. In existing dwelling units, carbon monoxide alarms are not required to be interconnected when work is limited to the installation, alteration or repair of plumbing or mechanical systems.
<p>14. HCD proposes to amend Section R315.2</p>	<p>R315.2 Where required in existing dwellings. Where a permit is required for alterations, repairs or additions exceeding one thousand dollars (\$1,000), existing dwellings or sleeping units that have attached garages or fuel-burning appliances shall be provided with a carbon monoxide alarm in accordance with Section R315.1. Carbon monoxide alarms shall only be required in the specific dwelling unit or sleeping unit for which the permit was obtained.</p>	<p>R315.2 When required in existing dwellings. Prior to July 1, 2011, when a permit is required for alterations, repairs or additions with a total cost or calculated valuation exceeding one thousand dollars (\$1,000), existing dwellings or sleeping units that have attached garages or fuel-burning appliances shall be provided with a carbon monoxide alarm in accordance with Section R315.1. Carbon monoxide alarms shall only be required in the specific dwelling unit or sleeping unit for which the permit was obtained.</p>

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15. HCD proposes to add new Section R315.2.1	No existing section or text	R315.2.1 Carbon monoxide alarms on or after July 1, 2011. All existing detached single-family dwelling units intended for human occupancy, shall have a carbon monoxide alarm, approved and listed by the State Fire Marshal installed on or before July 1, 2011. See Health and Safety Code Sections 17926, 17926.1 and 17926.2. Carbon monoxide alarms are permitted to be solely battery operated or plug-in with battery back-up in existing buildings where no construction is taking place. When a permit is required for alterations, repairs or additions, existing dwellings or sleeping units that have attached garages or fuel-burning appliances shall be provided with a carbon monoxide alarm in accordance with Section 315.1.
16. HCD proposes to add new Section R315.2.2	No existing section or text	R315.2.2 Carbon monoxide alarms on or after January 1, 2013. All other existing dwelling units intended for human occupancy as defined in Health and Safety Code Section 13262 (b) shall have a carbon monoxide alarm approved by the State Fire Marshal installed on or before January 1, 2013. See Health and Safety Code Sections 17926, 17926.1 and 17926.2. Carbon monoxide alarms are permitted to be solely battery operated or plug-in with battery back-up in existing buildings where no construction is taking place. When a permit is required for alterations, repairs or additions, existing dwelling units that have attached garages or fuel-burning appliances shall be provided with a carbon monoxide alarm in accordance with Section 315.1.
17. HCD proposes to amend Section R315.3	<p>R315.3 Alarm requirements. Single- and multiple-station carbon monoxide alarms shall be listed as complying with the requirements of UL 2034. Carbon monoxide detectors shall be listed as complying with the requirements of UL 2075. Carbon monoxide alarms and carbon monoxide detectors shall be installed in accordance with this code, the current edition of NFPA 720 "Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment" and the manufacturer's installation instructions. Other carbon monoxide alarm and detection devices as recognized in NFPA 720 are also acceptable.</p> <p>Carbon monoxide alarms required by Sections R315.1 and R315.2 shall be installed in the following locations:</p> <ol style="list-style-type: none"> 1. Outside of each separate dwelling unit sleeping area in the immediate vicinity of the bedroom(s). 2. On every level of a dwelling unit including basements. 	<p>R315.3 Alarm requirements. No person shall install, market, distribute, offer for sale, or sell any carbon monoxide device in the State of California unless the device and instructions have been approved and listed by the State Fire Marshal.</p> <p>Carbon monoxide alarms required by Sections R315.1 and R315.2 shall be installed in the following locations:</p> <ol style="list-style-type: none"> 1. Outside of each separate dwelling unit sleeping area in the immediate vicinity of the bedroom(s). 2. On every level of a dwelling unit including basements.